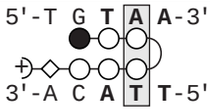
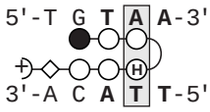
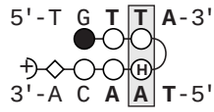
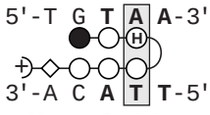
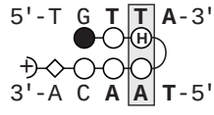
TABLE S1 Discrimination of 5'-TGTAA-3' and 5'-TGTTA-3'*

Pair†	5'-TGTAA-3'	5'-TGTTA-3'	K_{rel}‡
Py/Py	 K_d = 0.014 μM	 K_d = 0.007 μM	2.0
Py/Hp	 K_d = 0.20 μM	 K_d = 0.56 μM	0.36
Hp/Py	 K_d = 4.0 μM	 K_d = 0.28 μM	14

*The reported equilibrium dissociation constants are the mean values obtained from two DNase I footprint titration experiments on a 3' ^{32}P labeled 370-bp pDEH1 *Eco*RI / *Pvu*II DNA restriction fragment[13]. The assays were carried out at 22 °C, pH 7.0 in the presence of 10 mM Tris•HCl, 10 mM KCl, 10 mM $MgCl_2$, and 5 mM $CaCl_2$.

†Ring pairing opposite T•A and A•T in the third position.

‡Calculated as K_d(5'-TGTAA-3') / K_d(5'-TGTTA-3').